ST068600124

Grade 3 Mathematics

ACHIEVEMENT TEST

June 1986

Alberta
EDUCATION

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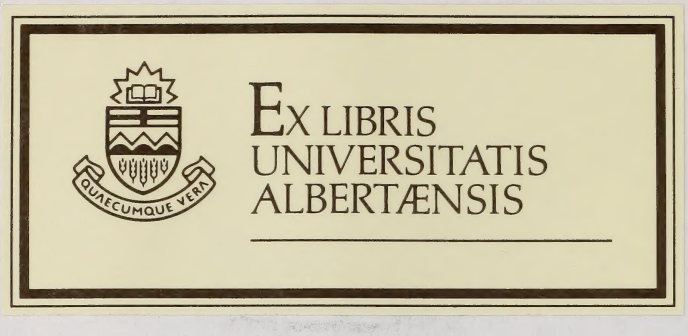

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GENERAL INFORMATION:

This test consists of two sections.

Section I is divided into two parts.

Part A consists of 25 questions covering numeration, geometry, and graphing.

Part B consists of 25 questions covering operations and properties, measurement, and problem-solving strategies.

Section II consists of four basic-fact tests in addition, subtraction, multiplication and division. Each basic-fact test contains 32 questions.

Students have 25 minutes to do each part of Section I and 2 minutes to do each basic-fact test.

DO NOT MAKE

ANY MARKS

ON THIS PAGE

DIRECTIONS:

1. Read the question and then choose the CORRECT answer and use an HB pencil to fill in the circle in front of that answer.

2. Mark only ONE answer for each question. Do not make any other marks on the page.

3. If you change an answer, erase your first mark completely.

4. Use scrap paper for figuring out the answers.

EXAMPLE

1. Find the sum.

$$\begin{array}{r} 6 \\ +\,2 \\ \hline \end{array}$$

○ 3
○ 4
● 8
○ 12

The correct answer is 8. The circle in front of the correct answer has been filled in.

5. Do not turn the page until your teacher tells you to do so.

PART A, SECTION I

This part of the test covers numeration, geometry, and graphing.

There are 25 questions and you have 25 minutes to do this part of the test.

1. **Which is true?**

- ○ 321 < 123
- ○ 321 > 123
- ○ 123 > 321
- ○ 123 = 321

---

2. **Which group of numbers is in correct order from SMALLEST to LARGEST?**

- ○ 901, 190, 109
- ○ 901, 109, 190
- ○ 190, 109, 901
- ○ 109, 190, 901

---

3. **The number 4 026 is read as**

- ○ forty thousand twenty-six
- ○ four thousand twenty-six
- ○ four hundred twenty-six
- ○ four twenty-six

---

4. **Five thousand seventy-two is written as**

- ○ 5 000 702
- ○ 500 072
- ○ 5 702
- ○ 5 072

---

5. **Counting backwards, what are the next two numbers?**

360, 350, 340, ___ , ___

- ○ 370, 380
- ○ 340, 330
- ○ 330, 340
- ○ 330, 320

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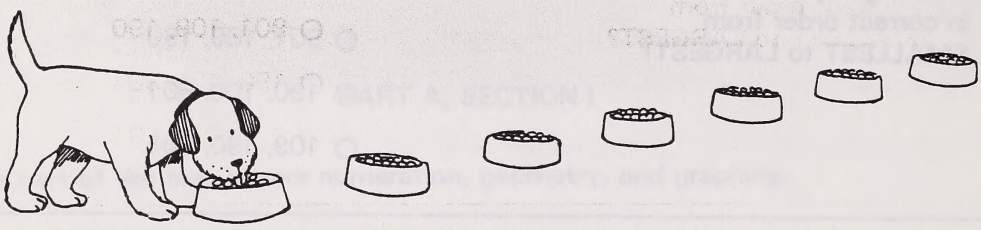
6. What numbers come next in this pattern?

485, 490, 495, ___ , ___

- O 500, 600
- O 500, 510
- O 500, 505
- O 499, 500

7.



Dishes of food were placed in a straight line, each 10 cm apart.
A hungry dog started at the first dish.
Then he went to the second, the third, and the fourth dish.
Then he STOPPED.
How far did he travel in all?

- O 14 cm
- O 30 cm
- O 40 cm
- O 60 cm

8. In the number 3 045, the 0 tells you how many

- O ones
- O tens
- O hundreds
- O thousands

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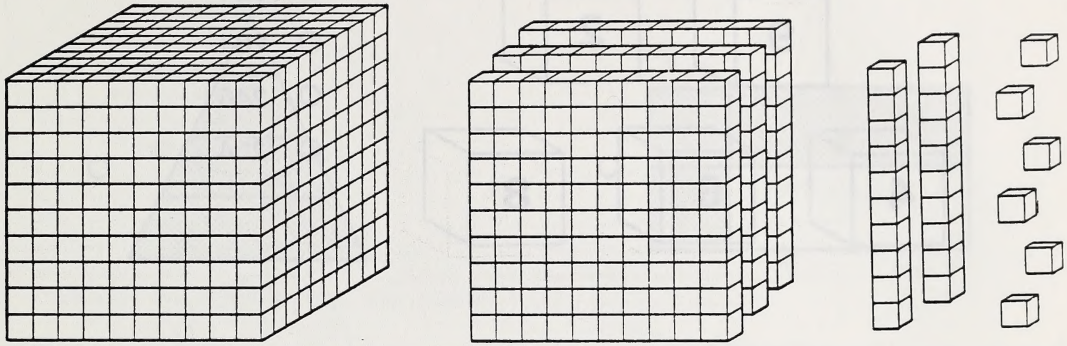
9.



How many small cubes are there in all?

- ○ 138
- ○ 1 236
- ○ 1 326
- ○ 1 330

---

10. The number 5 307 has

- ○ five thousands, three hundreds, seven tens
- ○ five thousands, three hundreds, seven ones
- ○ five thousands, three tens, seven ones
- ○ five hundreds, three tens, seven ones

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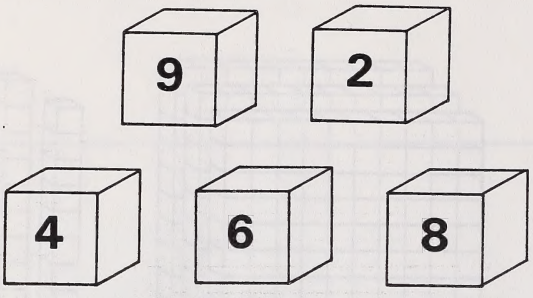
11. **What is the SMALLEST three-digit number you can make with THESE BLOCKS?**



- O 924
- O 264
- O 246
- O 234

12. **500 + 3 is the same as**

- O 53
- O 503
- O 530
- O 5 003

13. **476 is the same as**

- O (4 x 100) + (7 x 100) + (6 x 1)
- O (4 x 100) + (7 x 10) + (6 x 1)
- O (4 x 10) + (7 x 10) + (6 x 1)
- O (4 x 10) + (7 x 1) + (6 x 1)

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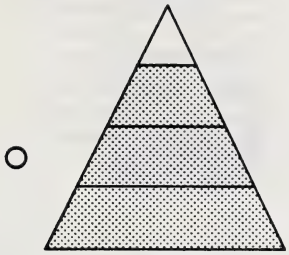
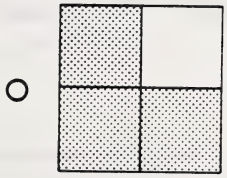
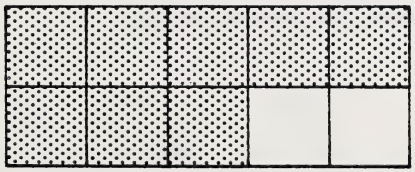
14. Which picture is $\frac{3}{4}$ shaded?





15. How much of the whole picture is shaded?



- 8.0
- 2.0
- 0.8
- 0.2

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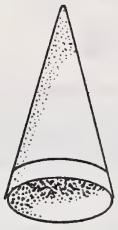
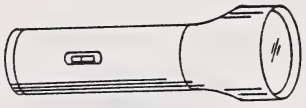
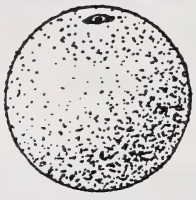
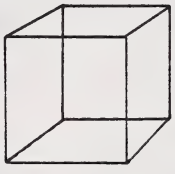
16. Which object is a sphere?







17. You need one straw to make each edge of this object.



How many straws would it take to make the above object?

- 12
- 10
- 9
- 8

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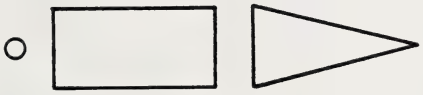
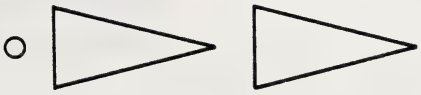
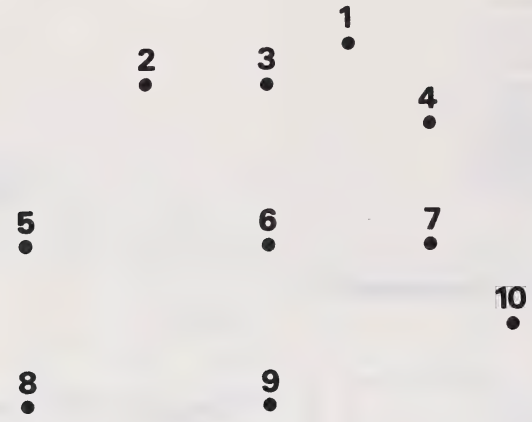
18. Use ALL these sticks.

Which two shapes can you make?





19. Cindy wants to draw a rectangle from these numbers.

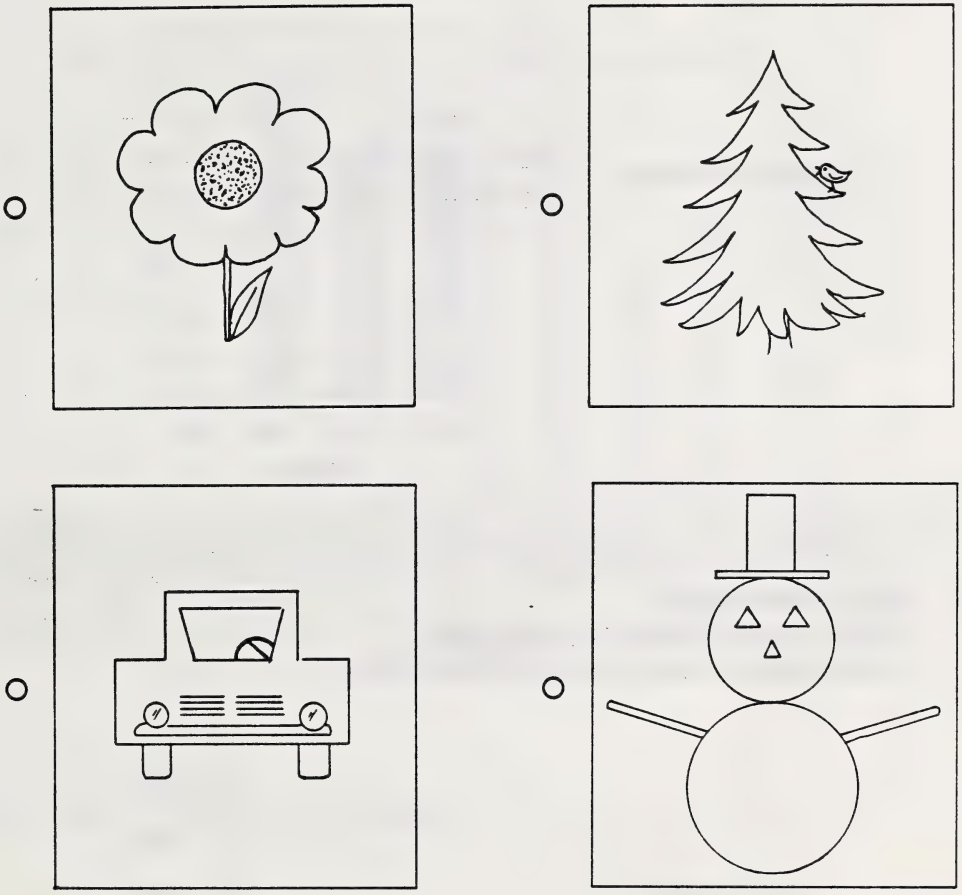


What numbers does she have to join together?

- ○ 2, 5, 6, 2
- ○ 3, 4, 7, 6, 3
- ○ 5, 6, 9, 8, 5
- ○ 5, 6, 7, 10, 9, 8, 5

Go on to the next page

20. Which picture is symmetrical?



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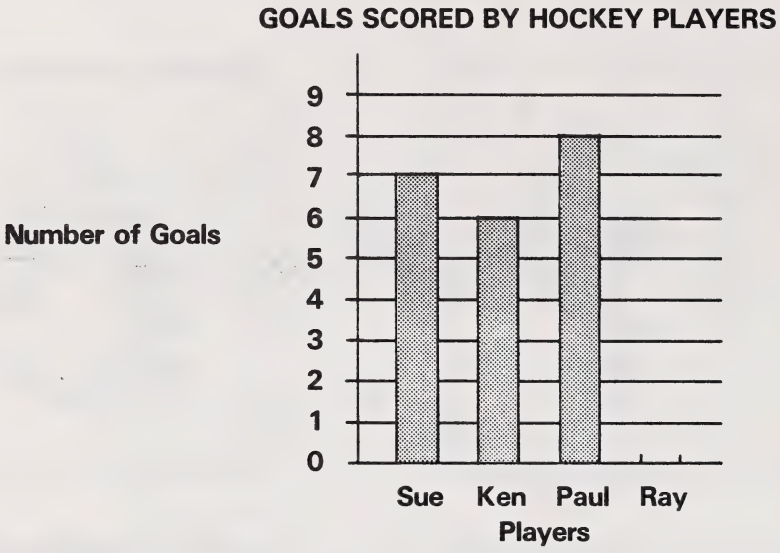
21. This graph is not complete.

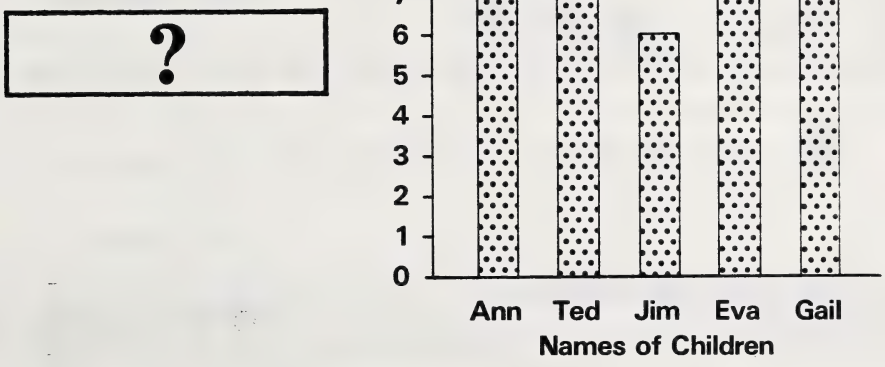


Ray scored 9 goals.
If Ray's score is shown on the graph,
whose bar will now be the SECOND tallest?

- O Paul's
- O Sue's
- O Ken's
- O Ray's

Go on to the next page

22. This graph is not complete.



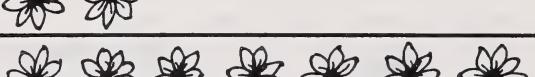
What label is missing from the graph?

- ○ Number of Toys
- ○ Number of Children
- ○ Names of Toys
- ○ Names of Children

Go on to the next page

23. Study this graph.

FLOWERS PLANTED

Bill	
Brenda	
Ron	
Mary	

means one flower

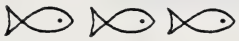
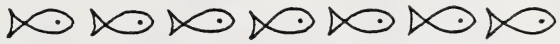
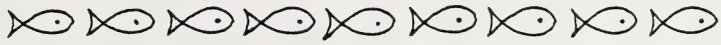
How many flowers did Brenda and Mary plant in all?

- ○ 10
- ○ 8
- ○ 5
- ○ 3

Go on to the next page

24. Study this graph.

FISH CAUGHT BY TOM

Sunday	
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	?

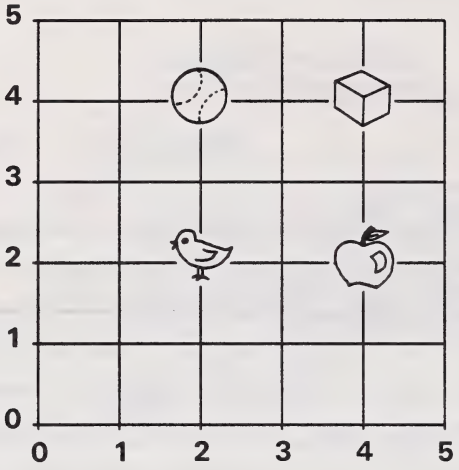
means one fish

Tom caught a total of 30 fish.
How many fish did he catch on Saturday?

- ○ 0
- ○ 5
- ○ 25
- ○ 30

Go on to the next page

25. Study this grid.



Where is the ball on the grid?

- ○ across 4, up 2
- ○ across 4, up 4
- ○ across 2, up 2
- ○ across 2, up 4

END OF PART A, SECTION I

YOU MAY GO BACK AND CHECK YOUR ANSWERS

TO PART A, QUESTIONS 1 to 25.

PART B, SECTION I

This part of the test covers operations and properties, measurement, and problem-solving strategies.

There are 25 questions and you have 25 minutes to do this part of the test.

DO NOT TURN THE PAGE UNTIL YOUR TEACHER TELLS YOU TO DO SO.

26. 28 children went to the zoo.
4 children went in each car.
To find out how many cars were used we can

- ○ add
- ○ subtract
- ○ multiply
- ○ divide

27. What sign goes in the ☐ ?

13 ☐ 5 = 8

- ○ +
- ○ −
- ○ x
- ○ ÷

28. Find the sum.

$$\begin{array}{r} 295 \\ +\ 387 \\ \hline \end{array}$$

- ○ 572
- ○ 582
- ○ 672
- ○ 682

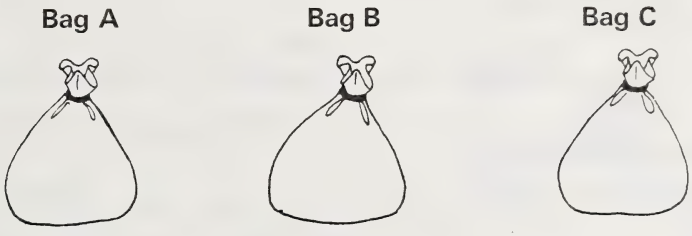
29. Find the difference.

$$\begin{array}{r} 879 \\ -\ 43 \\ \hline \end{array}$$

- ○ 36
- ○ 826
- ○ 836
- ○ 846

Go on to the next page

30. John has 3 bags of marbles.



There are 7 marbles in Bag A and 5 marbles in Bag C.
To find out how many marbles John has in all,
you will need to know the

- ○ number of marbles in Bag B
- ○ number of marbles in Bag C
- ○ colors of the marbles
- ○ sizes of the marbles

---

31. Find the difference.

$$\begin{array}{r} 744 \\ -\ 256 \\ \hline \end{array}$$

- ○ 598
- ○ 588
- ○ 512
- ○ 488

Go on to the next page

32. 46 people are on a bus.
18 people get off.
Then 13 people get on.
How many people are on the bus now?

- ○ 51
- ○ 41
- ○ 31
- ○ 15

33. Find the missing number.

$$\begin{array}{r} 47 \\ +\square 3 \\ \hline 70 \end{array}$$

- ○ 2
- ○ 3
- ○ 5
- ○ 10

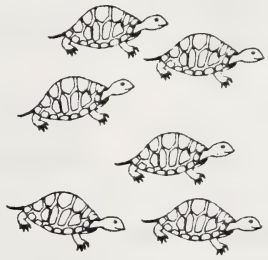
34.

This picture can be used to show

- ○ 3 + 4
- ○ 4 – 3
- ○ 4 x 3
- ○ 4 ÷ 3

Go on to the next page

35. Amy drew these fish and turtles.



She wants to have the same number of fish and turtles.
What does she have to do?

- ○ She has to draw 4 more fish.
- ○ She has to draw 4 more turtles.
- ○ She has to draw 6 more fish.
- ○ She has to draw 10 more turtles.

36. What goes in the ☐?

$42 + 37 = \square + 42$

- ○ 5
- ○ 15
- ○ 37
- ○ 42

Go on to the next page

37. Which related sentence is missing?

4 x 5 = 20
5 x 4 = 20
20 ÷ 4 = 5

- ○ 5 + 4 = 9
- ○ 20 – 5 = 15
- ○ 20 x 4 = 80
- ○ 20 ÷ 5 = 4

---

38. What goes in the ☐?

48 x ☐ = 48

- ○ 0
- ○ 1
- ○ 10
- ○ 100

---

39. There are 7 boxes of

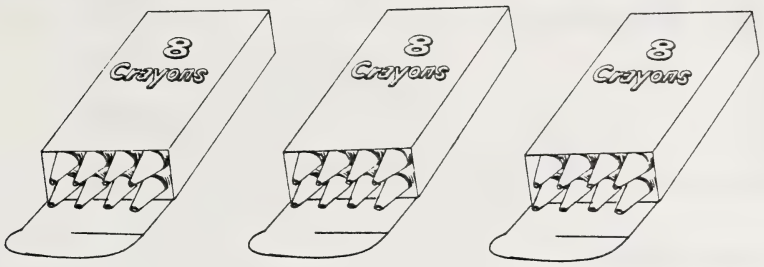
There are 100 in each box.

How many are there in all?

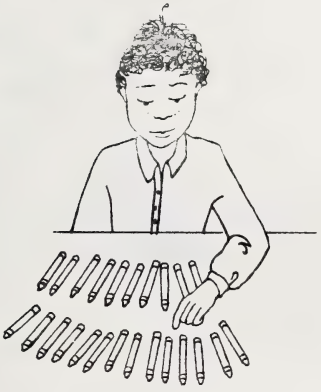
- ○ 7 100
- ○ 700
- ○ 107
- ○ 70

Go on to the next page

40. Terry wants to know how many crayons are in these boxes.



Terry took all the crayons out and counted them one by one.



He found that there are 24 crayons in all.

What other way could Terry have found the total number of crayons?

- ○ Add 8 and 3
- ○ Subtract 3 from 24
- ○ Multiply 8 by 3
- ○ Divide 24 by 8

Go on to the next page

41. Pat's birthday is in April.
Jill's birthday is 2 months later.
In which month is Jill's birthday?

- ○ June
- ○ May
- ○ July
- ○ March

42. Which clock shows 10:35?

○

○

○

○

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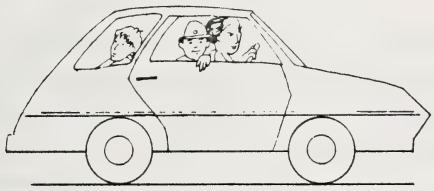
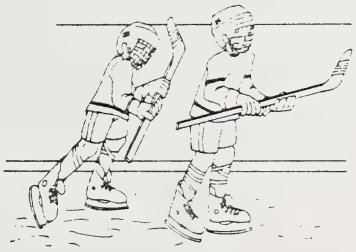
43. Bob's team plays hockey at 8:00
It takes 25 minutes to drive to the rink,



and 15 minutes to change.

The team warms up for 10 minutes.



What time does Bob have to leave his house to play hockey?

- ○ 7:10
- ○ 7:35
- ○ 8:25
- ○ 8:50

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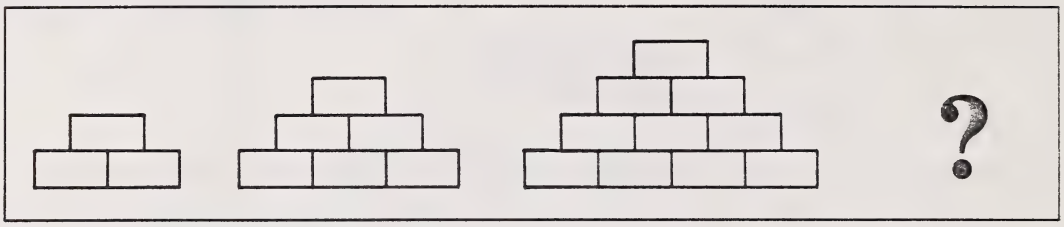
44.



How many blocks would be in the next picture?

- ○ 17
- ○ 15
- ○ 13
- ○ 11

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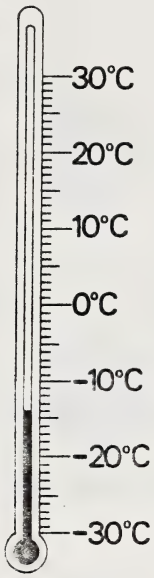
45. The temperature shown is



- ○ −14°C
- ○ 14°C
- ○ −26°C
- ○ 26°C

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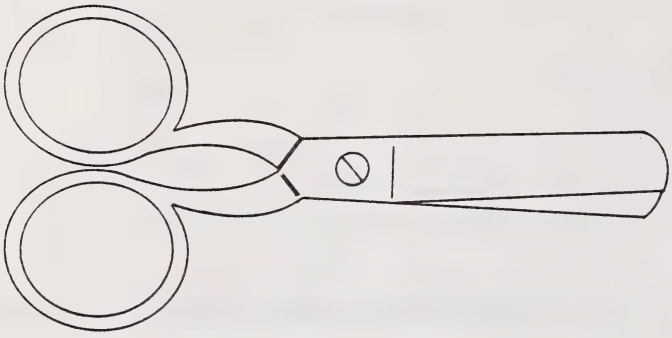
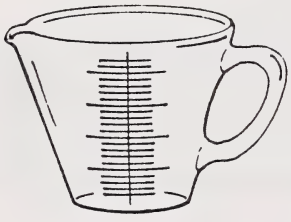
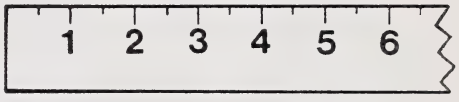
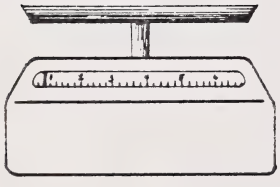
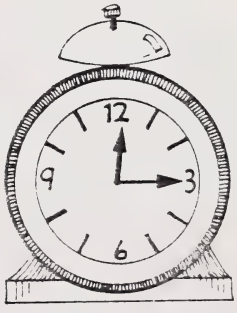
46. About how long are these scissors?



- ○ 1 cm
- ○ 1 dm
- ○ 1 m
- ○ 1 km

47. If you want to find out how heavy a chicken is, you would use

- ○ 
- ○ 

- ○ 
- ○ 

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48. Which group of coins has a total value of 41¢?

○

○

○

○

Go on to the next page

49. Joe bought this ice cream cone.

He gave the clerk these coins.

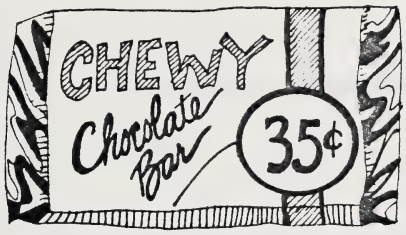
The clerk gave Joe back these coins.

Did Joe get the correct change?

- ○ Yes.
- ○ No, the change should be
- ○ No, the change should be
- ○ No, the change should be

Go on to the next page

50. Linda bought a chocolate bar.



She gave the clerk 50¢.
What change should she get back?

- ○ 1 dime and 1 nickel
- ○ 1 dime and 1 penny
- ○ 2 dimes
- ○ 1 quarter

END OF PART B, SECTION I

YOU MAY GO BACK AND CHECK YOUR ANSWERS

TO PART B, QUESTIONS 26 TO 50.

DO NOT TURN THE PAGE UNTIL YOUR TEACHER TELLS

YOU TO DO SO.

DO NOT MAKE

ANY MARKS

ON THIS PAGE

SECTION 2: BASIC FACTS

The next part of the test will be TIMED.

ADDITION	32 questions	2 minutes
SUBTRACTION	32 questions	2 minutes
MULTIPLICATION	32 questions	2 minutes
DIVISION	32 questions	2 minutes

You may not be able to finish all 32 questions.
Do as many questions as you can.

Your teacher will tell you when to START and when to STOP.

DO NOT TURN THE PAGE UNTIL YOUR TEACHER TELLS

YOU TO DO SO.

ADDITION

1.

$$\begin{array}{r} 2 \\ +\ 1 \\ \hline \end{array}$$

- ○ 1
- ○ 2
- ○ 3
- ○ 21

2.

$$\begin{array}{r} 4 \\ +\ 3 \\ \hline \end{array}$$

- ○ 1
- ○ 6
- ○ 7
- ○ 12

3.

$$\begin{array}{r} 5 \\ +\ 4 \\ \hline \end{array}$$

- ○ 1
- ○ 9
- ○ 20
- ○ 45

4.

$$\begin{array}{r} 7 \\ +\ 7 \\ \hline \end{array}$$

- ○ 0
- ○ 7
- ○ 14
- ○ 17

5.

$$\begin{array}{r} 4 \\ +\ 0 \\ \hline \end{array}$$

- ○ 0
- ○ 2
- ○ 4
- ○ 40

6.

$$\begin{array}{r} 6 \\ +\ 3 \\ \hline \end{array}$$

- ○ 3
- ○ 9
- ○ 10
- ○ 18

7.

$$\begin{array}{r} 2 \\ +\ 5 \\ \hline \end{array}$$

- ○ 3
- ○ 5
- ○ 7
- ○ 10

8.

$$\begin{array}{r} 6 \\ +\ 7 \\ \hline \end{array}$$

- ○ 1
- ○ 11
- ○ 13
- ○ 42

9.

$$\begin{array}{r} 9 \\ +\ 9 \\ \hline \end{array}$$

- ○ 0
- ○ 9
- ○ 17
- ○ 18

10.

$$\begin{array}{r} 8 \\ +\ 2 \\ \hline \end{array}$$

- ○ 6
- ○ 10
- ○ 11
- ○ 16

11.

$$\begin{array}{r} 0 \\ +\ 7 \\ \hline \end{array}$$

- ○ 0
- ○ 7
- ○ 17
- ○ 70

12.

$$\begin{array}{r} 6 \\ +\ 5 \\ \hline \end{array}$$

- ○ 1
- ○ 11
- ○ 30
- ○ 56

13.

$$\begin{array}{r} 3 \\ +\ 3 \\ \hline \end{array}$$

- ○ 0
- ○ 3
- ○ 6
- ○ 9

14.

$$\begin{array}{r} 7 \\ +\ 2 \\ \hline \end{array}$$

- ○ 5
- ○ 9
- ○ 14
- ○ 27

15.

$$\begin{array}{r} 4 \\ +\ 9 \\ \hline \end{array}$$

- ○ 5
- ○ 12
- ○ 13
- ○ 36

16.

$$\begin{array}{r} 1 \\ +\ 8 \\ \hline \end{array}$$

- ○ 1
- ○ 8
- ○ 9
- ○ 18

Go on to the next page

ADDITION

17.	18.	19.	20.
5 + 6	3 + 9	2 + 7	5 + 5
○ 1 ○ 11 ○ 30 ○ 56	○ 6 ○ 9 ○ 12 ○ 13	○ 5 ○ 9 ○ 10 ○ 14	○ 0 ○ 5 ○ 10 ○ 25

21.	22.	23.	24.
6 + 9	8 + 3	3 + 2	9 + 4
○ 3 ○ 15 ○ 16 ○ 54	○ 5 ○ 10 ○ 11 ○ 24	○ 1 ○ 5 ○ 6 ○ 23	○ 5 ○ 13 ○ 14 ○ 36

25.	26.	27.	28.
7 + 6	9 + 7	4 + 2	7 + 8
○ 1 ○ 13 ○ 14 ○ 42	○ 2 ○ 16 ○ 17 ○ 18	○ 2 ○ 4 ○ 6 ○ 8	○ 1 ○ 14 ○ 15 ○ 17

29.	30.	31.	32.
3 + 6	4 + 7	8 + 9	4 + 6
○ 3 ○ 8 ○ 9 ○ 18	○ 3 ○ 7 ○ 11 ○ 12	○ 1 ○ 17 ○ 18 ○ 19	○ 2 ○ 6 ○ 10 ○ 24

SUBTRACTION

1.	2.	3.	4.
$\begin{array}{r} 15 \\ -\ 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -\ 8 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ -\ 6 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ -\ 3 \\ \hline \end{array}$
○ 1 ○ 8 ○ 9 ○ 21	○ 1 ○ 2 ○ 17 ○ 72	○ 3 ○ 7 ○ 8 ○ 19	○ 1 ○ 2 ○ 7 ○ 12

5.	6.	7.	8.
$\begin{array}{r} 9 \\ -\ 6 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ -\ 2 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ -\ 3 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ -\ 9 \\ \hline \end{array}$
○ 2 ○ 3 ○ 15 ○ 54	○ 0 ○ 1 ○ 2 ○ 4	○ 2 ○ 3 ○ 7 ○ 13	○ 3 ○ 4 ○ 7 ○ 17

9.	10.	11.	12.
$\begin{array}{r} 8 \\ -\ 6 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ -\ 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ -\ 1 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ -\ 5 \\ \hline \end{array}$
○ 1 ○ 2 ○ 3 ○ 14	○ 2 ○ 3 ○ 8 ○ 12	○ 1 ○ 3 ○ 4 ○ 5	○ 2 ○ 4 ○ 5 ○ 6

13.	14.	15.	16.
$\begin{array}{r} 9 \\ -\ 4 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -\ 0 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -\ 7 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ -\ 2 \\ \hline \end{array}$
○ 4 ○ 5 ○ 6 ○ 13	○ 0 ○ 1 ○ 9 ○ 10	○ 0 ○ 1 ○ 14 ○ 17	○ 8 ○ 9 ○ 12 ○ 13

Go on to the next page

SUBTRACTION

17.		18.		19.		20.	
	○ 8		○ 6		○ 2		○ 2
10	○ 9	16	○ 7	6	○ 3	11	○ 3
− 1	○ 10	− 9	○ 9	− 4	○ 9	− 8	○ 4
	○ 11		○ 25		○ 10		○ 17

21.		22.		23.		24.	
	○ 3		○ 4		○ 2		○ 4
9	○ 4	8	○ 5	16	○ 7	12	○ 5
− 5	○ 5	− 2	○ 6	− 8	○ 8	− 7	○ 6
	○ 14		○ 7		○ 12		○ 15

25.		26.		27.		28.	
	○ 0		○ 2		○ 2		○ 4
0	○ 1	18	○ 8	5	○ 3	10	○ 5
− 0	○ 2	− 9	○ 9	− 2	○ 4	− 4	○ 6
	○ 10		○ 11		○ 7		○ 7

29.		30.		31.		32.	
	○ 3		○ 5		○ 7		○ 4
7	○ 4	11	○ 6	17	○ 8	14	○ 5
− 3	○ 10	− 5	○ 7	− 9	○ 9	− 8	○ 6
	○ 21		○ 14		○ 12		○ 14

MULTIPLICATION

1.	2.	3.	4.
2 x 3	5 x 2	4 x 9	1 x 1
○ 1	○ 3	○ 13	○ 0
○ 5	○ 7	○ 32	○ 1
○ 6	○ 10	○ 36	○ 2
○ 23	○ 12	○ 49	○ 11

5.	6.	7.	8.
7 x 5	6 x 0	3 x 3	5 x 9
○ 2	○ 0	○ 0	○ 14
○ 12	○ 2	○ 3	○ 40
○ 35	○ 6	○ 6	○ 45
○ 40	○ 60	○ 9	○ 59

9.	10.	11.	12.
2 x 6	3 x 8	5 x 3	6 x 4
○ 4	○ 11	○ 2	○ 2
○ 8	○ 24	○ 8	○ 10
○ 12	○ 28	○ 15	○ 24
○ 14	○ 38	○ 25	○ 28

13.	14.	15.	16.
3 x 9	0 x 1	7 x 4	5 x 5
○ 6	○ 0	○ 3	○ 0
○ 12	○ 1	○ 11	○ 5
○ 27	○ 2	○ 21	○ 10
○ 39	○ 10	○ 28	○ 25

Go on to the next page

MULTIPLICATION

17.	18.	19.	20.
7 x 6	9 x 2	1 x 8	4 x 3
○ 1	○ 7	○ 1	○ 1
○ 13	○ 11	○ 7	○ 7
○ 42	○ 18	○ 8	○ 12
○ 43	○ 29	○ 18	○ 13

21.	22.	23.	24.
5 x 4	2 x 8	4 x 6	6 x 3
○ 1	○ 6	○ 2	○ 3
○ 9	○ 8	○ 10	○ 9
○ 20	○ 10	○ 18	○ 16
○ 25	○ 16	○ 24	○ 18

25.	26.	27.	28.
8 x 5	4 x 4	7 x 2	0 x 0
○ 3	○ 0	○ 5	○ 0
○ 13	○ 4	○ 9	○ 1
○ 40	○ 8	○ 14	○ 2
○ 58	○ 16	○ 16	○ 10

29.	30.	31.	32.
5 x 7	6 x 6	4 x 1	7 x 3
○ 12	○ 0	○ 1	○ 4
○ 34	○ 12	○ 3	○ 10
○ 35	○ 36	○ 4	○ 21
○ 57	○ 66	○ 5	○ 27

DIVISION

1.	2.	3.	4.
$2 \overline{)4}$	$3 \overline{)15}$	$4 \overline{)16}$	$5 \overline{)30}$
○ 2	○ 5	○ 3	○ 6
○ 3	○ 6	○ 4	○ 7
○ 6	○ 12	○ 12	○ 8
○ 8	○ 18	○ 20	○ 25

5.	6.	7.	8.
$1 \overline{)6}$	$3 \overline{)24}$	$5 \overline{)40}$	$7 \overline{)35}$
○ 1	○ 7	○ 6	○ 5
○ 5	○ 8	○ 8	○ 6
○ 6	○ 21	○ 35	○ 28
○ 7	○ 27	○ 45	○ 42

9.	10.	11.	12.
$8 \overline{)8}$	$2 \overline{)12}$	$4 \overline{)28}$	$6 \overline{)36}$
○ 0	○ 6	○ 7	○ 5
○ 1	○ 7	○ 8	○ 6
○ 16	○ 10	○ 24	○ 30
○ 18	○ 14	○ 32	○ 31

13.	14.	15.	16.
$9 \overline{)45}$	$3 \overline{)6}$	$4 \overline{)36}$	$6 \overline{)12}$
○ 4	○ 2	○ 8	○ 1
○ 5	○ 3	○ 9	○ 2
○ 38	○ 9	○ 32	○ 6
○ 54	○ 18	○ 40	○ 18

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DIVISION

17. $6 \overline{)42}$

- ○ 6
- ○ 7
- ○ 8
- ○ 36

18. $4 \overline{)4}$

- ○ 0
- ○ 1
- ○ 4
- ○ 16

19. $2 \overline{)8}$

- ○ 2
- ○ 4
- ○ 6
- ○ 10

20. $5 \overline{)10}$

- ○ 2
- ○ 3
- ○ 5
- ○ 15

21. $9 \overline{)27}$

- ○ 2
- ○ 3
- ○ 18
- ○ 36

22. $2 \overline{)18}$

- ○ 8
- ○ 9
- ○ 16
- ○ 20

23. $8 \overline{)32}$

- ○ 4
- ○ 6
- ○ 24
- ○ 40

24. $3 \overline{)18}$

- ○ 5
- ○ 6
- ○ 18
- ○ 21

25. $5 \overline{)45}$

- ○ 5
- ○ 7
- ○ 8
- ○ 9

26. $1 \overline{)1}$

- ○ 0
- ○ 1
- ○ 2
- ○ 11

27. $7 \overline{)21}$

- ○ 3
- ○ 4
- ○ 14
- ○ 28

28. $8 \overline{)16}$

- ○ 2
- ○ 3
- ○ 8
- ○ 24

29. $3 \overline{)9}$

- ○ 2
- ○ 3
- ○ 6
- ○ 13

30. $9 \overline{)9}$

- ○ 0
- ○ 1
- ○ 18
- ○ 19

31. $4 \overline{)20}$

- ○ 4
- ○ 5
- ○ 6
- ○ 24

32. $7 \overline{)14}$

- ○ 1
- ○ 2
- ○ 4
- ○ 7

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LAST NAME

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6 6 6 6
7 7 7 7
8 8 8 8
9 9 9 9

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